



FREQUENCY DIVIDER WITH FUNNEL STRUCTURE  
Application No. 10/772,584  
Inventor: Jean-Luc DE GOUY  
*Replacement Sheet*

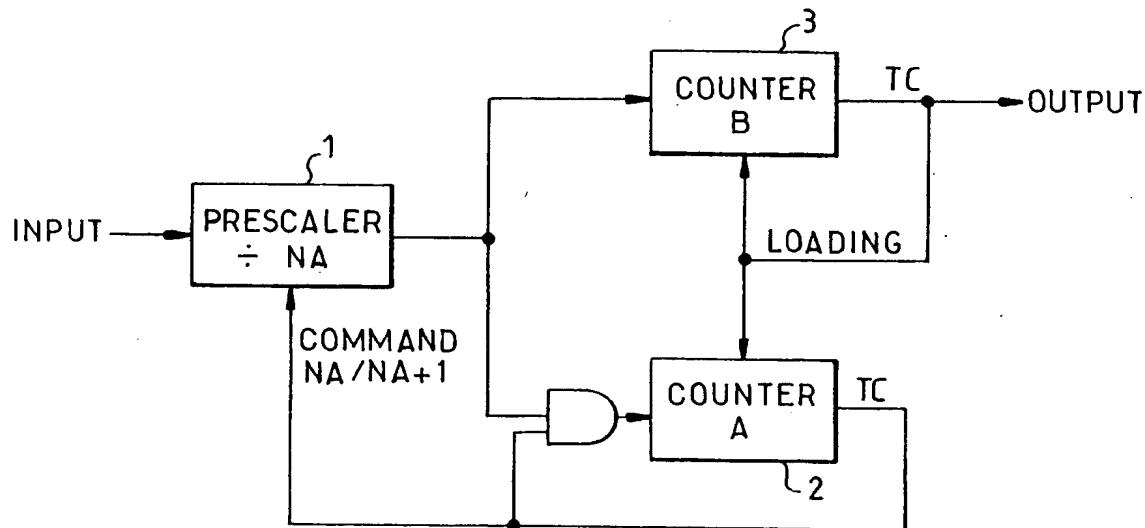


FIG.1

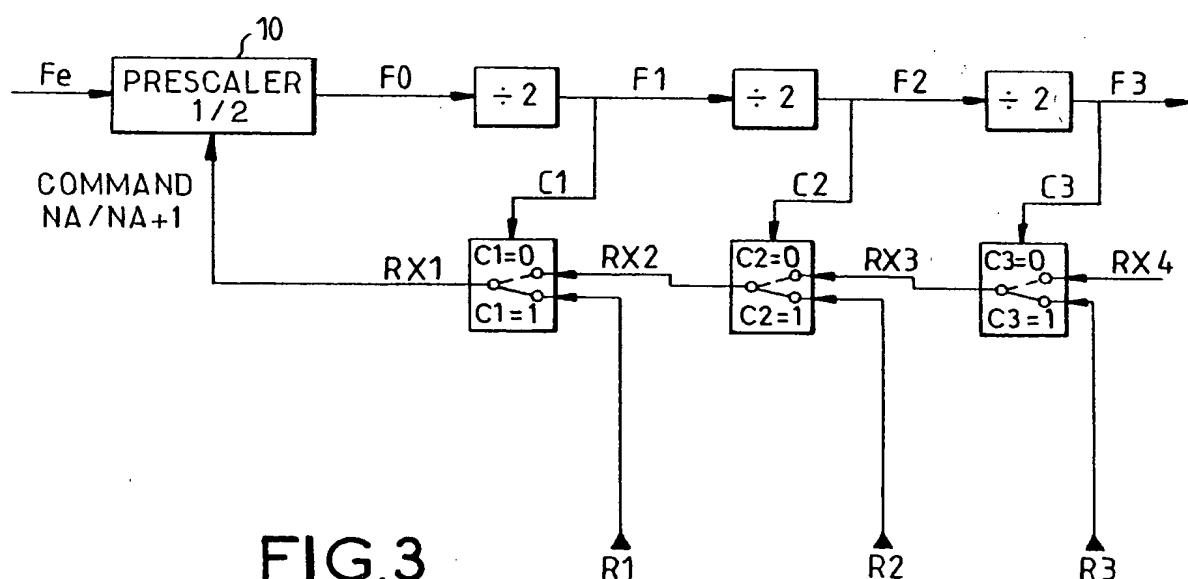


FIG.3

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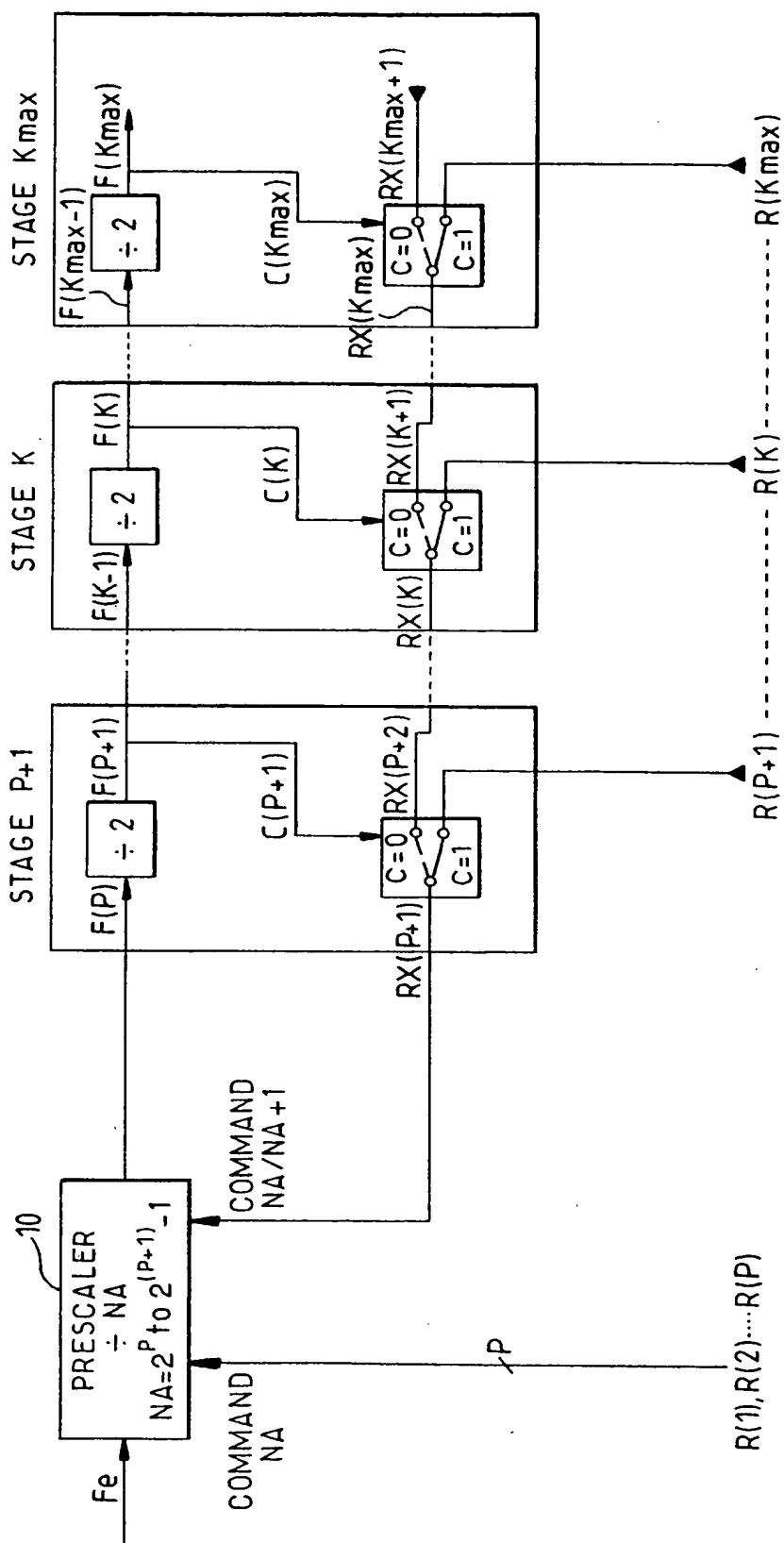


FIG.2

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FIG.4

RX3	STATE OF F3	HIGH		LOW	
RX2	VALUE	R3		RX4	
RX1	STATE OF F2	HIGH	LOW	HIGH	LOW
$F_0$ HIGH STATE + LOW STATE	DURATION / $T_e$ $1+R1$	$1+R2$	$1+R1$	$1+R3$	$1+R1$
$F_1$	STATE	HIGH	LOW	HIGH	LOW
$F_2$	DURATION / $T_e$	$1+R1$	$1+R2$	$1+R1$	$1+R3$
$F_3$	DURATION / $T_e$	$4+2R1+R2+R3$		$4+2R1+R2+R3+RX4$	
	DURATION / $T_e$ OF THE FRAME			$8+4R1+2R2+R3+RX4$	

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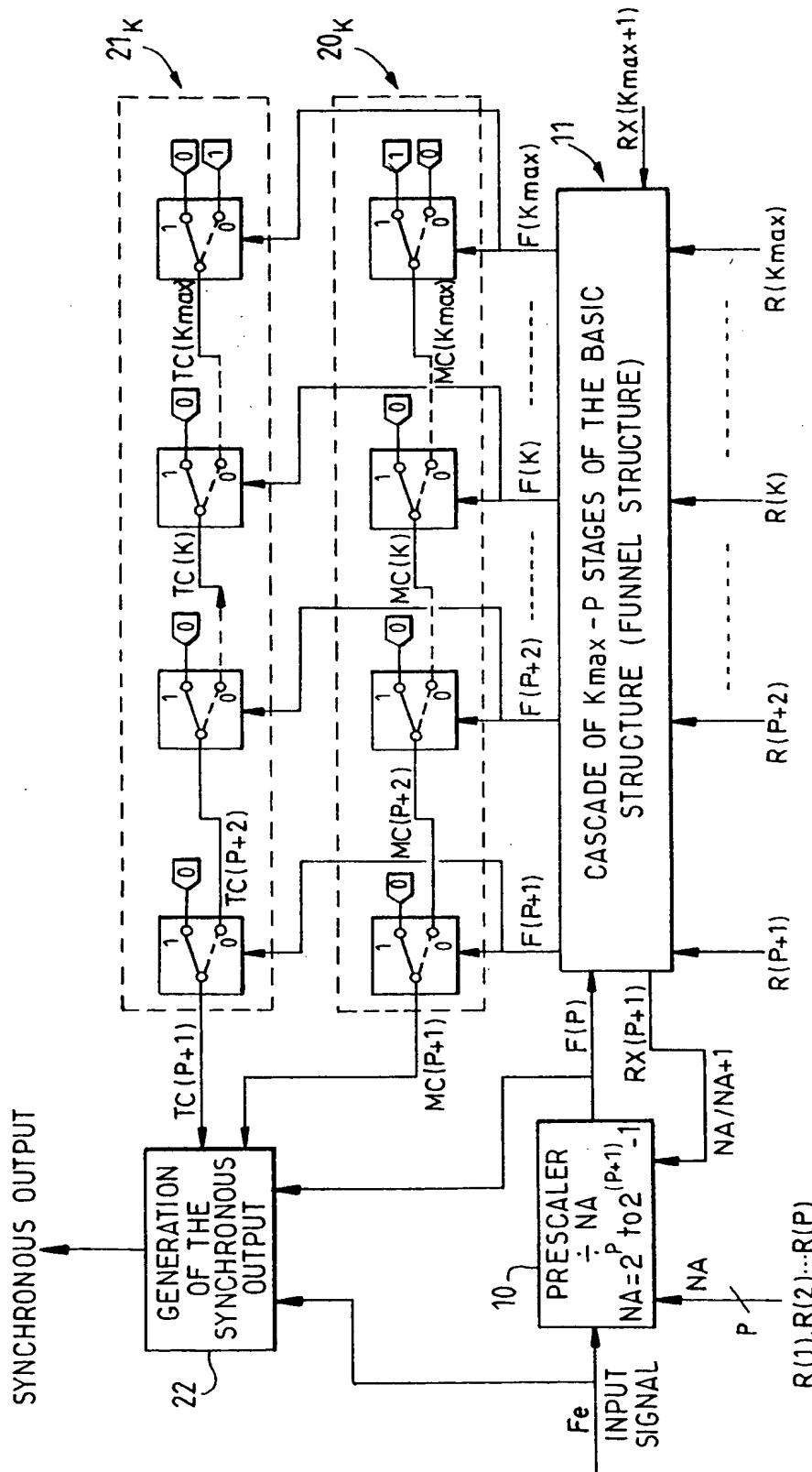


FIG. 5A

FREQUENCY DIVIDER WITH FUNNEL STRUCTURE

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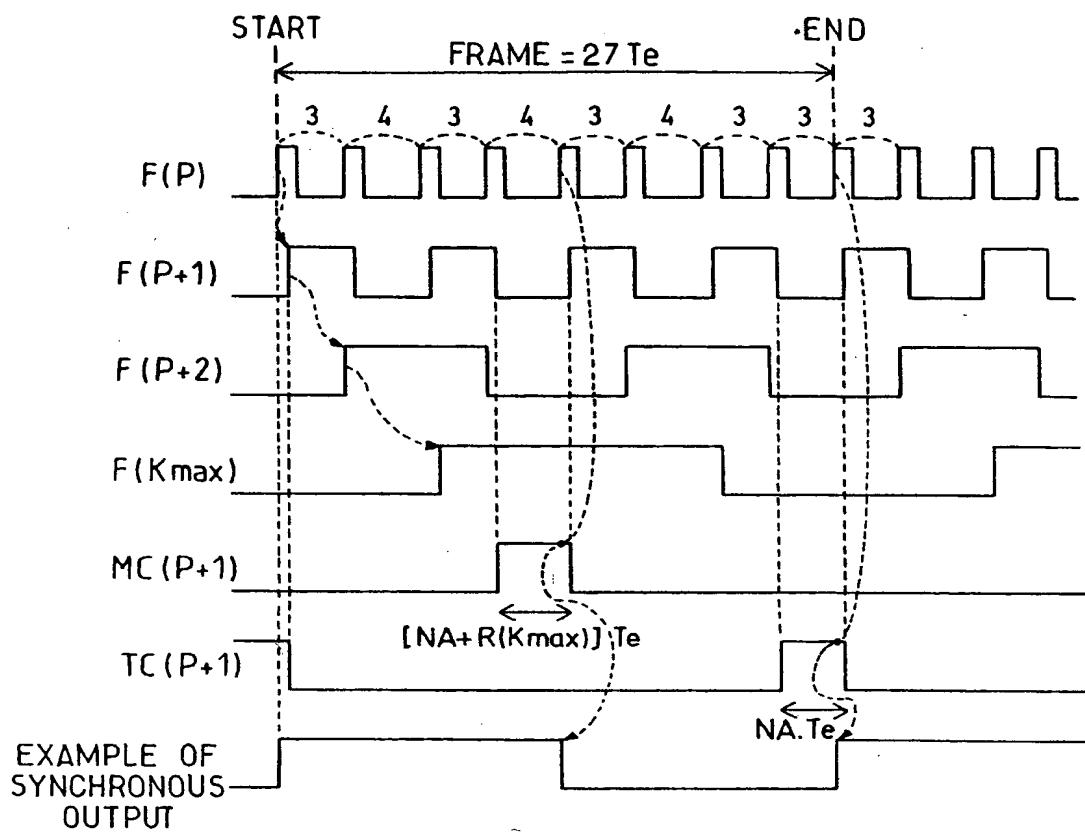


FIG. 5B

FREQUENCY DIVIDER WITH FUNNEL STRUCTURE

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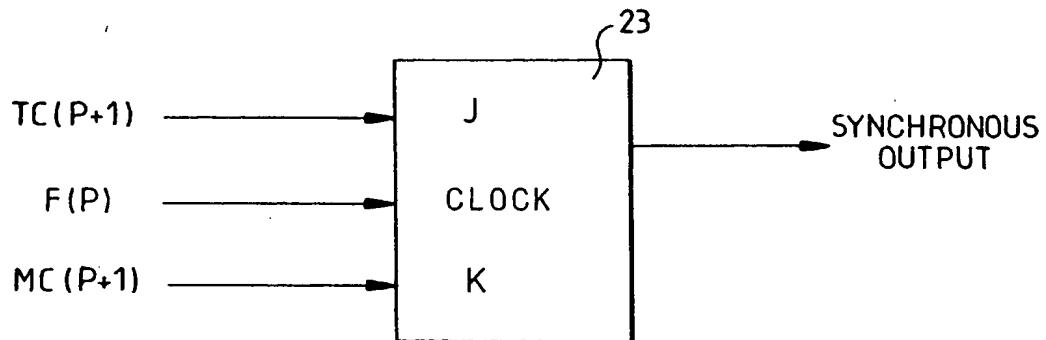


FIG.6

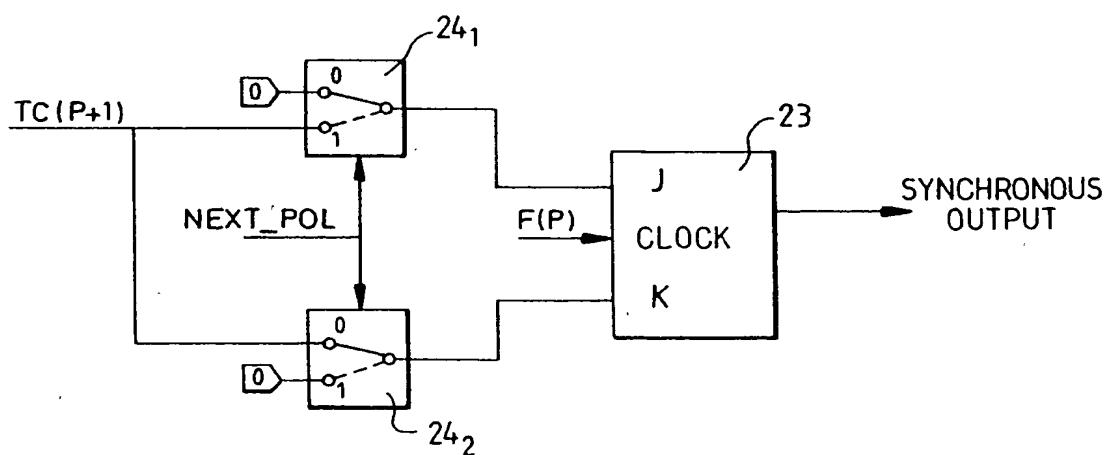


FIG.7

FREQUENCY DIVIDER WITH FUNNEL STRUCTURE

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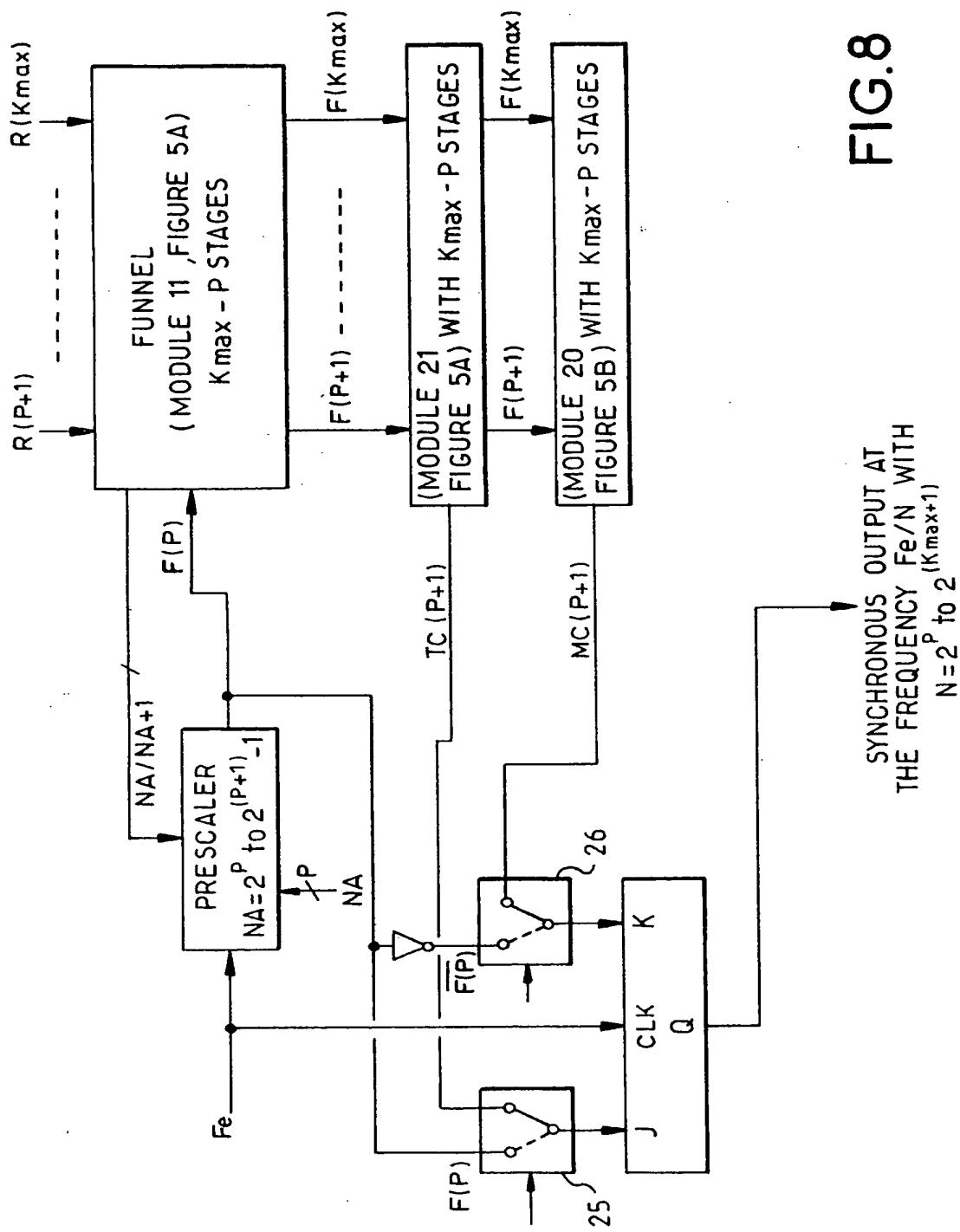


FIG.8

## FREQUENCY DIVIDER WITH FUNNEL STRUCTURE

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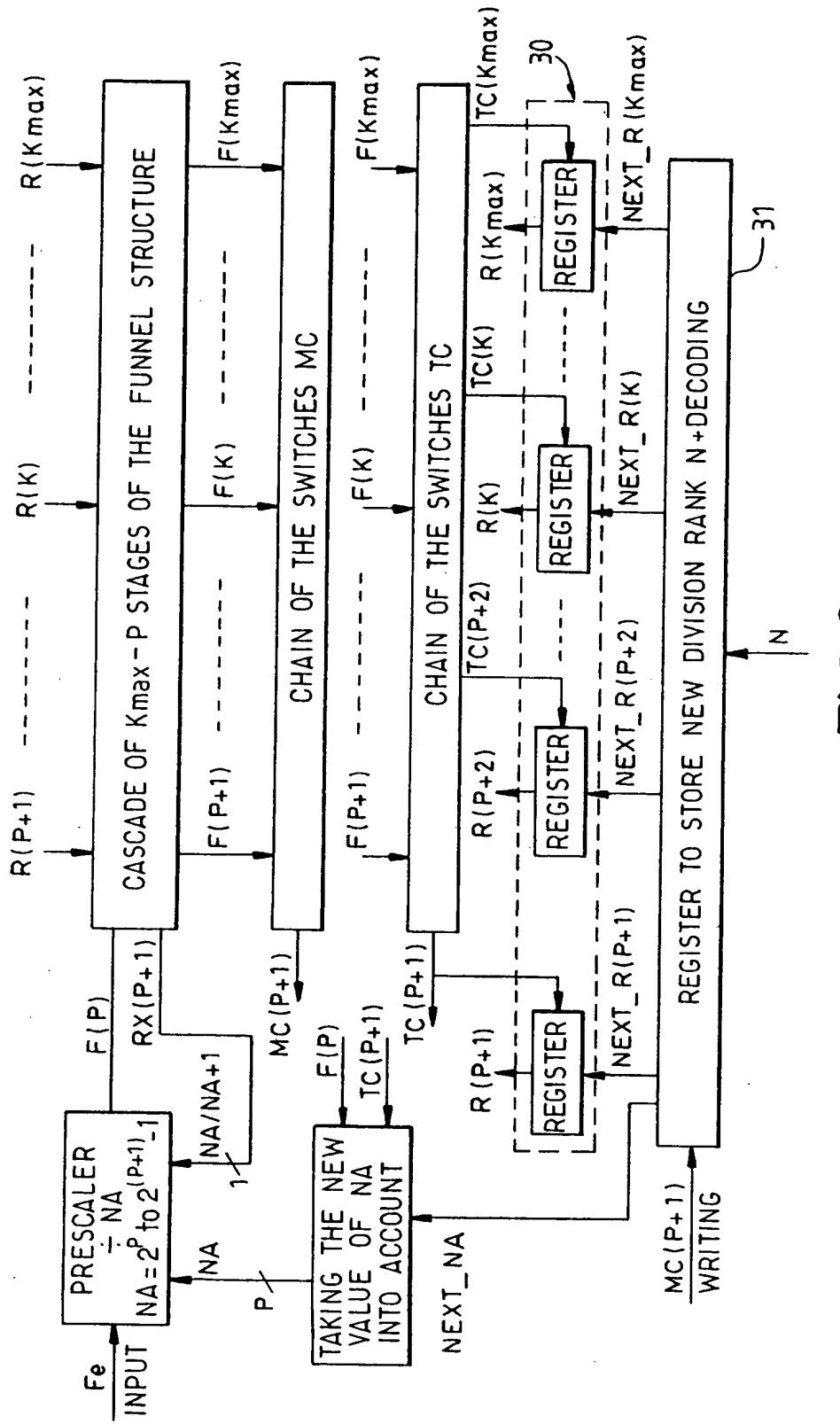


FIG. 9

## FREQUENCY DIVIDER WITH FUNNEL STRUCTURE

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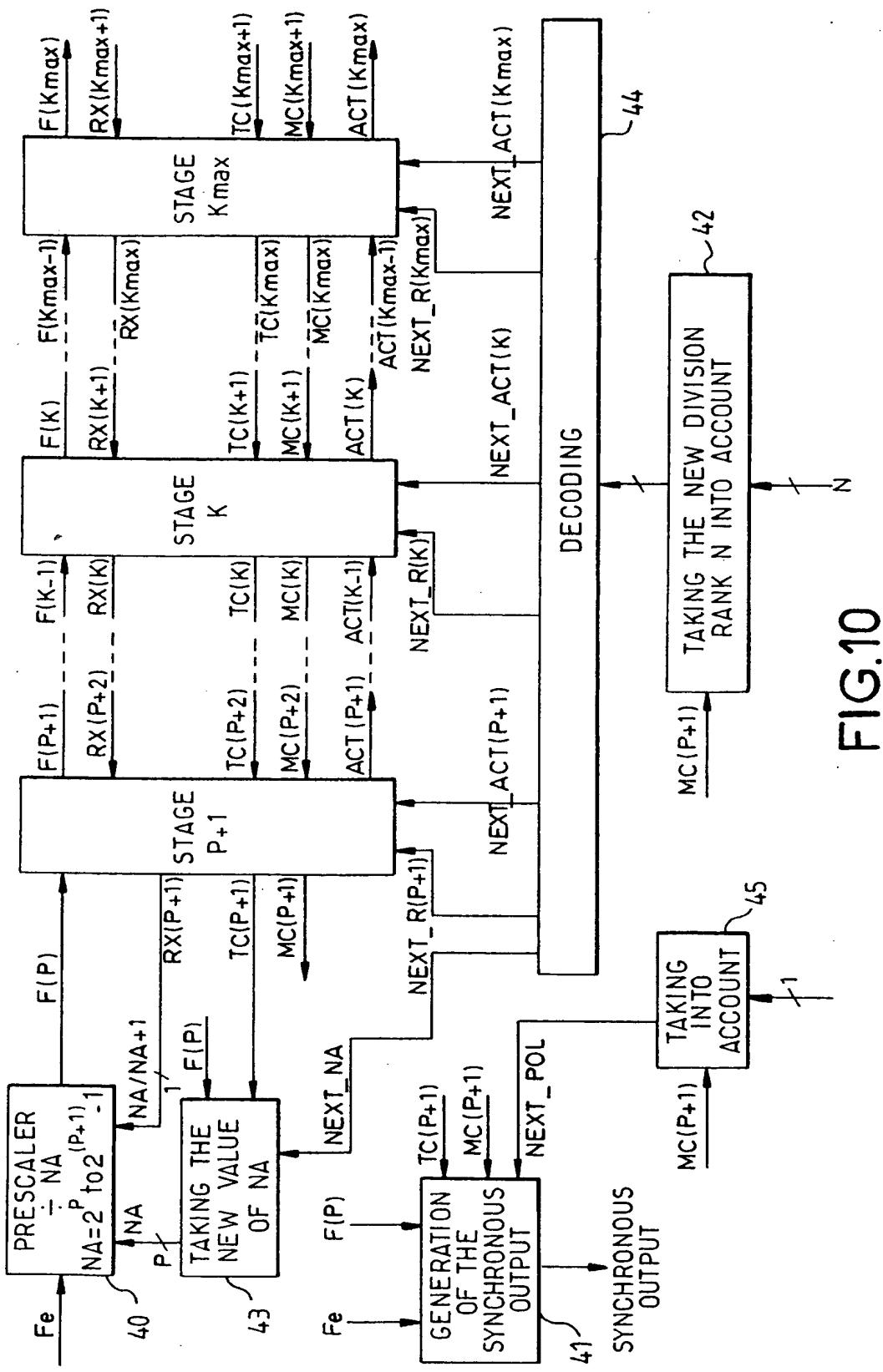


FIG. 10

FREQUENCY DIVIDER WITH FUNNEL STRUCTURE  
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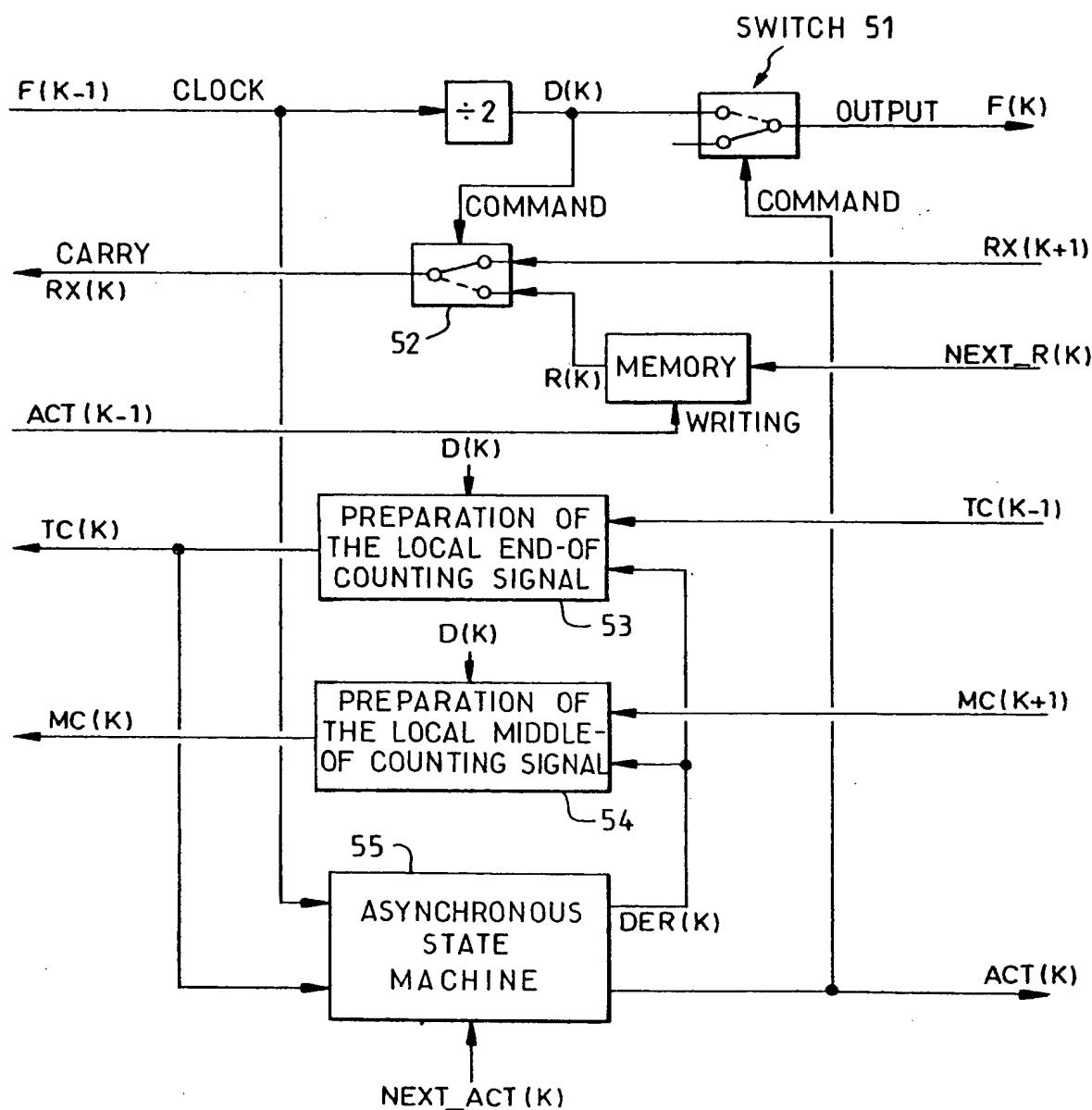


FIG.11

FREQUENCY DIVIDER WITH FUNNEL STRUCTURE

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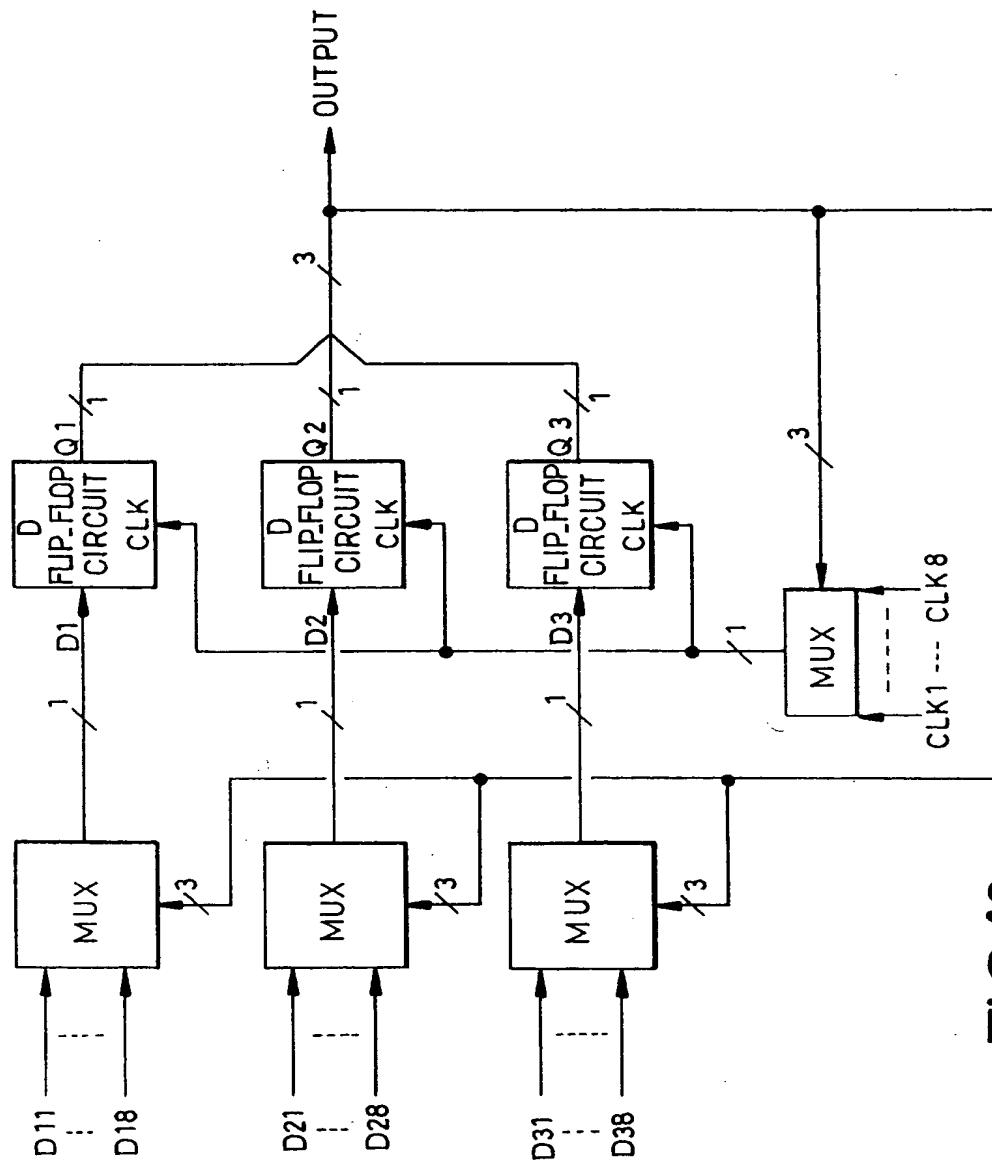


FIG.12

FREQUENCY DIVIDER WITH FUNNEL STRUCTURE

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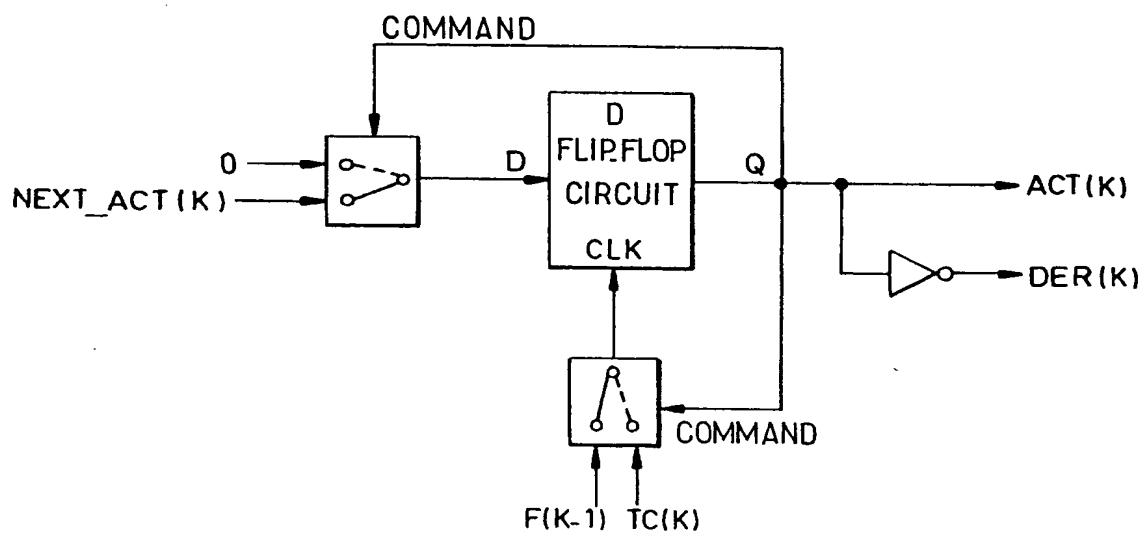


FIG.13